EduSahara™ Worksheet

Name : Chapter Based Worksheet

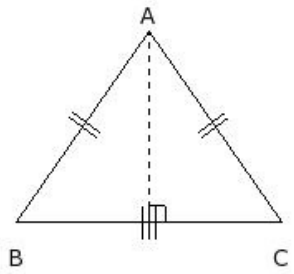
Chapter : Heron's Formula

Grade : CBSE Grade IX

1. A triangular park has sides 200 m, 160 m and 110 m. A gardener has to put a fence all around it and also plant grass inside. Find the cost of fencing it with barbed wire at the rate of ₹9 per metre leaving a space of 4 m wide for the gate on one side.

   (i) ₹3914.00 (ii) ₹4424.00 (iii) ₹4034.00 (iv) ₹4194.00 (v) ₹4244.00

2. In an isosceles triangle △ABC, if base BC = 16 cm and area is 91.91 sq.cm, then corresponding height of side BC =



   (i) 8.49 cm (ii) 6.49 cm (iii) 14.49 cm (iv) 11.49 cm (v) 16.49 cm

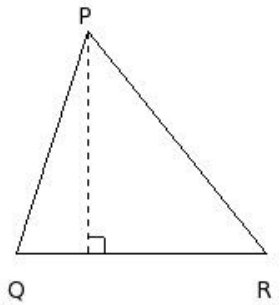
3. A rhombus shaped field has green grass for 18 cows to graze. If the perimeter of the field is 400.00 m and one of the diagonals is 190 m, how much area of the grass field will each cow be grazing?

   (i) 344.54 sq.m (ii) 332.54 sq.m (iii) 307.54 sq.m (iv) 329.54 sq.m (v) 327.54 sq.m

4. A triangle and a parallelogram, both have the same base and the same area. If the sides of the triangle are 26 cm, 13 cm and 17 cm, and the parallelogram stands on the base 13 cm, find the height of the parallelogram

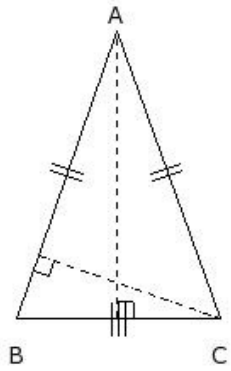
   (i) 8.39 cm (ii) 7.39 cm (iii) 6.39 cm (iv) 9.39 cm (v) 5.39 cm

5. In △PQR, if QR = 15 cm, RP = 17 cm and perimeter = 46 cm, then corresponding height of side QR =



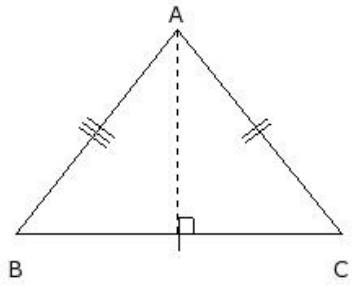
   (i) 16.29 cm (ii) 10.29 cm (iii) 8.29 cm (iv) 18.29 cm (v) 13.29 cm

6. In an isosceles triangle △ABC, if base BC = 12 cm and the corresponding height is 16.97 cm, then corresponding height of side AB =



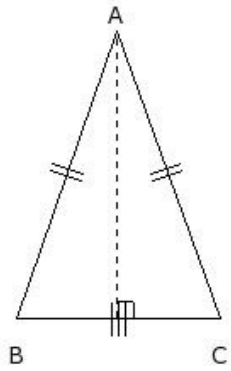
(i) 6.31 cm (ii) 11.31 cm (iii) 16.31 cm (iv) 8.31 cm (v) 14.31 cm

7. In an isosceles triangle △ABC, the corresponding height of the side BC is 12.49 cm and area is 124.9 sq.cm, then side BC =



(i) 20.00 cm (ii) 15.00 cm (iii) 23.00 cm (iv) 25.00 cm (v) 17.00 cm

8. In an isosceles triangle △ABC, if base BC = 12 cm and the corresponding height is 16.97 cm, then side AB =

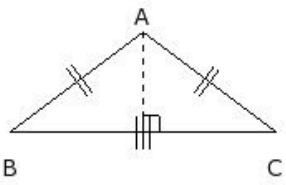


(i) 23.00 cm (ii) 15.00 cm (iii) 21.00 cm (iv) 18.00 cm (v) 13.00 cm

9. A floral design on a floor is made up of 28 triangular shaped tiles. The sides of each tile are 22 cm, 17 cm and 19 cm. If the cost of polishing the tiles is ₹2.00 per sq cm, find the total cost to polishing all the tiles.

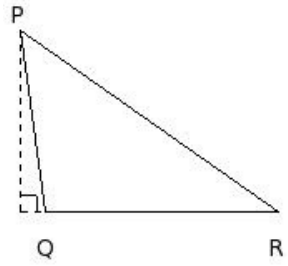
(i) ₹8610.31 (ii) ₹9000.31 (iii) ₹8560.31 (iv) ₹8870.31 (v) ₹8740.31

10. In an isosceles triangle △ABC, if BC = 16 cm, CA = AB and perimeter is 36 cm, then corresponding height of side BC =



(i) 4.00 cm (ii) 8.00 cm (iii) 5.00 cm (iv) 6.00 cm (v) 7.00 cm

11. In △PQR, if QR = 14 cm, RP = 19 cm and the corresponding height of side QR = 10.89 cm, then side PQ =

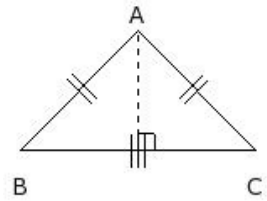


(i) 6.00 cm (ii) 8.00 cm (iii) 11.00 cm (iv) 16.00 cm (v) 14.00 cm

12. A field is in the shape of a trapezium whose parallel sides are 22 m and 7 m. The non parallel sides are 27 m and 16 m. Find the area of the field.

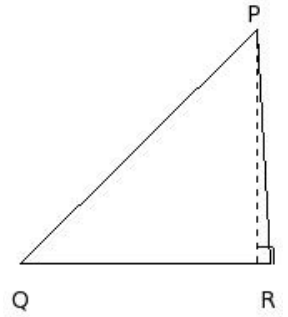
(i) 181.64 sq.m (ii) 184.64 sq.m (iii) 223.64 sq.m (iv) 200.64 sq.m (v) 198.64 sq.m

13. In an isosceles triangle △ABC, if base BC = 14 cm and the corresponding height is 7.14 cm, then area of the triangle =



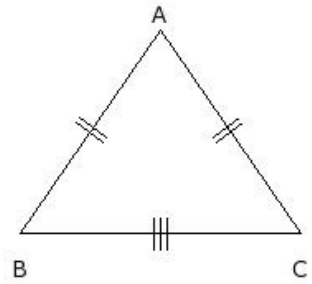
(i) 52.99 sq.cm (ii) 49.99 sq.cm (iii) 44.99 sq.cm (iv) 46.99 sq.cm (v) 54.99 sq.cm

14. In △PQR, if QR = 15 cm, RP = 14 cm and the corresponding height of side QR = 13.98 cm, then area of the triangle =



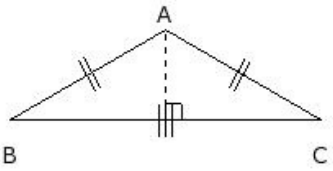
(i) 122.87 sq.cm (ii) 78.87 sq.cm (iii) 96.87 sq.cm (iv) 128.87 sq.cm (v) 104.87 sq.cm

15. In an isosceles triangle △ABC, if base BC = 17 cm and area is 105.05 sq.cm, then side AB =



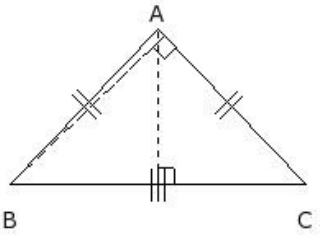
(i) 18.00 cm (ii) 20.00 cm (iii) 12.00 cm (iv) 15.00 cm (v) 10.00 cm

16. In an isosceles triangle △ABC, the corresponding height of the side BC is 5.55 cm and area is 52.68 sq.cm, then side CA =



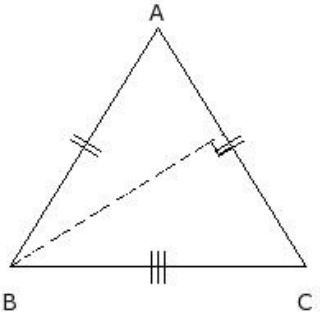
(i) 6.00 cm (ii) 14.00 cm (iii) 16.00 cm (iv) 11.00 cm (v) 8.00 cm

17. In an isosceles triangle △ABC, the corresponding height of the side BC is 9.38 cm and area is 84.43 sq.cm, then corresponding height of side CA =



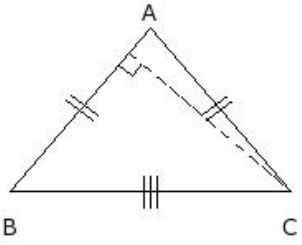
(i) 9.99 cm (ii) 17.99 cm (iii) 12.99 cm (iv) 7.99 cm (v) 15.99 cm

18. In an isosceles triangle △ABC, if base BC = 18 cm and area is 129.8 sq.cm, then corresponding height of side CA =



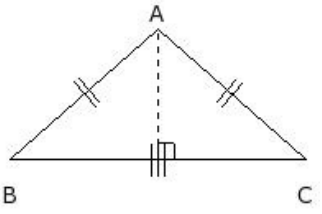
(i) 18.27 cm (ii) 15.27 cm (iii) 12.27 cm (iv) 20.27 cm (v) 10.27 cm

19. In an isosceles triangle △ABC, if BC = 17 cm, AB = CA = 13 cm, then corresponding height of side AB =



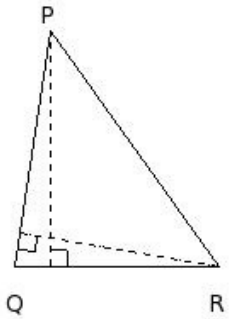
(i) 12.86 cm (ii) 15.86 cm (iii) 7.86 cm (iv) 9.86 cm (v) 17.86 cm

20. In an isosceles triangle △ABC, the corresponding height of the side BC is 7.94 cm and area is 71.44 sq.cm, then side AB =



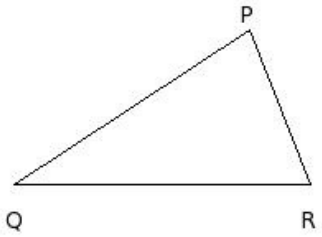
(i) 15.00 cm (ii) 7.00 cm (iii) 9.00 cm (iv) 17.00 cm (v) 12.00 cm

21. In △PQR, if QR = 12 cm, RP = 17 cm and the corresponding height of side QR = 13.84 cm, then corresponding height of side PQ =



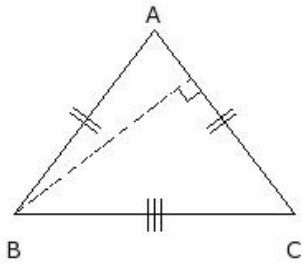
(i) 6.86 cm (ii) 8.86 cm (iii) 11.86 cm (iv) 16.86 cm (v) 14.86 cm

22. In △PQR, if QR = 18 cm, RP = 10 cm and perimeter = 45 cm, then area of the triangle =



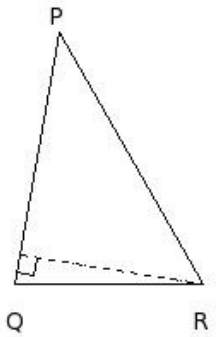
(i) 83.43 sq.cm (ii) 88.43 sq.cm (iii) 86.43 sq.cm (iv) 78.43 sq.cm (v) 80.43 sq.cm

23. In an isosceles triangle △ABC, if BC = 17 cm, AB = CA = 14 cm, then corresponding height of side CA =



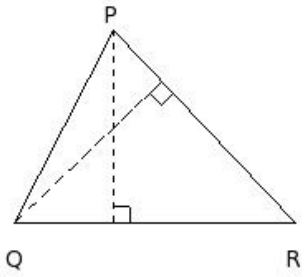
(i) 8.51 cm (ii) 16.51 cm (iii) 18.51 cm (iv) 13.51 cm (v) 10.51 cm

24. In △PQR, if QR = 11 cm, RP = 17 cm, PQ = 15 cm, then corresponding height of side PQ =



(i) 13.83 cm (ii) 10.83 cm (iii) 7.83 cm (iv) 5.83 cm (v) 15.83 cm

25. In △PQR, if QR = 17 cm, RP = 16 cm and the corresponding height of side QR = 11.56 cm, then corresponding height of side RP =



(i) 9.29 cm (ii) 7.29 cm (iii) 17.29 cm (iv) 12.29 cm (v) 15.29 cm

Assignment Key

1) (iv)	2) (iv)	3) (iv)	4) (ii)	5) (v)	6) (ii)
7) (i)	8) (iv)	9) (v)	10) (iv)	11) (iii)	12) (v)
13) (ii)	14) (v)	15) (iv)	16) (iv)	17) (iii)	18) (ii)
19) (i)	20) (v)	21) (iii)	22) (i)	23) (iv)	24) (ii)
25) (iv)					